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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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07/23/2003

DORITY & MANNING, P.A. POST OFFICE BOX 1449 GREENVILLE, SC 29602-1449 EXAMINER

NOLAN, SANDRA M

ART UNIT

CLASS-SUBCLASS

1772

428-035700

DATE MAILED: 07/23/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/334.054	06/15/1999	DAVID W. JOHNSON	11381	4885

TITLE OF INVENTION: ELASTOMERIC ARTICLE WITH FINE COLLOIDAL SILICA SURFACE TREATMENT, AND ITS PREPARATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	10/23/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

**Commissioner for Patents** Alexandria, Virginia 22313-1450

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07/23/2003

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

	Table 10 to the Col 1 C, on the date materials colors.
(Depositor's name	
(Signature	
(Date	

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	09/334,054	06/15/1999	DAVID W. JOHNSON	11381	4885

TITLE OF INVENTION: ELASTOMERIC ARTICLE WITH FINE COLLOIDAL SILICA SURFACE TREATMENT, AND ITS PREPARATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FE	E TOTAL FEE	E(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$130	00	10/23/2003
EXAMINER		ART UNIT	CLASS-SUBCLASS			
NOLAN, SA	NDRA M	1772	428-035700			
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> </ol>			2. For printing on the pate the names of up to 3 regis	stered patent attorneys	1	
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			or agents OR, alternatively single firm (having as a attorney or agent) and th	member a registered	2	
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered patent attorneys is listed, no name will be pr	or agents. If no name	3	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or c	ategories (will not be printed on the patent)	individual	□ corporation or other private group enti	ty 🖸 government	
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):	-			
☐ Issue Fee	☐ A check in the amount	of the fee(s) is en	aclosed.		
☐ Publication Fee	☐ Payment by credit card	. Form PTO-2038	3 is attached.		
☐ Advance Order - # of Copies	☐ The Commissioner is h Deposit Account Number	ereby authorized	by charge the required fee(s), or credit any (enclose an extra copy of this form).	it any overpayment, to n).	
Commissioner for Patents is requested to apply the	Issue Fee and Publication Fee (if any) or to re-	apply any previo	ously paid issue fee to the application identi	fied above.	
(Authorized Signature)	(Date)	<u> </u>			
NOTE; The Issue Fee and Publication Fee (if rother than the applicant; a registered attorney interest as shown by the records of the United Sta	equired) will not be accepted from anyone or agent; or the assignee or other party in tes Patent and Trademark Office.				
This collection of information is required by 37 obtain or retain a benefit by the public which is application. Confidentiality is governed by 35 U.3 estimated to take 12 minutes to complete, includ completed application form to the USPTO. Tim case. Any comments on the amount of time suggestions for reducing this burden, should be Patent and Trademark Office, U.S. Departm 22313-1450. DO NOT SEND FEES OR CONSEND TO: Commissioner for Patents, Alexandria	ing gainstring, preparing, and submitting the will vary depending upon the individual you require to complete this form and/or sent to the Chief Information Officer, U.S. elect of Commerce, Alexandria, Virginia APLETED FORMS TO THIS ADDRESS.				
Under the Paperwork Reduction Act of 1995, collection of information unless it displays a valid	no persons are required to respond to a OMB control number.				
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APPLICATION NO.	PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/334,054 06/15/1999		06/15/1999	DAVID W. JOHNSON	11381	4885	
22827	7590	07/23/2003		EXAMIN	ER `	
DORITY & MANNING, P.A. POST OFFICE BOX 1449		NOLAN, SANDRA M				
GREENVILLE				ART UNIT	PAPER NUMBER	
UNITED STATES				1772		
				DATE MAILED: 07/23/2003		

# Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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GREENVILLE,				ART UNIT	PAPER NUMBER
UNITED STAT				1772	
				DATE MAILED: 07/23/2003	·

#### Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			A9-2
	Application No.	Applicant(s)	
	09/334,054	JOHNSON, DAVID	۸/
Notice of Allowability	Examiner	Art Unit	, <u>, , , , , , , , , , , , , , , , , , </u>
		4	,
	Sandra M. Nolan	1772	
The MAILING DATE of this communication a All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1	S IS (OR REMAINS) CLOSED i85) or other appropriate comm IT RIGHTS. This application is .313 and MPEP 1308.	n this application. If not include unication will be mailed in due subject to withdrawal from issu	ed course. <b>THIS</b>
1. $oxed{\boxtimes}$ This communication is responsive to <u>the amendment (</u>	dated 26 June 2003 (Paper No.	<u>23)</u> .	
2. The allowed claim(s) is/are <u>1-22 and 31-37</u> .			
3. The drawings filed on are accepted by the Exam			
4. Acknowledgment is made of a claim for foreign priority	y under 35 U.S.C. § 119(a)-(d) c	or (f).	
a) All b) Some* c) None of the:	h h	•	
1. Certified copies of the priority documents		Al-	
2. Certified copies of the priority documents	· •		4:
3. Copies of the certified copies of the priorit	•	ed in this national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)	)).		
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic prior	•		
(a) The translation of the foreign language provision			
6. Acknowledgment is made of a claim for domestic prior	ity under 35 U.S.C. §§ 120 and/	or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DAT below. Failure to timely comply will result in ABANDONMEN	E" of this communication to file and this application. • <b>THIS TH</b>	a reply complying with the requ REE-MONTH PERIOD IS NOT	irements noted EXTENDABLE
7. A SUBSTITUTE OATH OR DECLARATION must be s INFORMAL PATENT APPLICATION (PTO-152) which gives	submitted. Note the attached EX reason(s) why the oath or decla	(AMINER'S AMENDMENT or Naration is deficient.	IOTICE OF
8. X CORRECTED DRAWINGS must be submitted.			
(a) ⊠ including changes required by the Notice of Draft	sperson's Patent Drawing Revie	ew ( PTO-948) attached	
1) ☐ hereto or 2) ⊠ to Paper No. <u>9</u> .	•	,	
(b) including changes required by the proposed draw	ving correction filed, whi	ch has been approved by the E	xaminer.
(c) including changes required by the attached Exam	niner's Amendment / Comment o	or in the Office action of Paper	No
Identifying indicia such as the application number (see 37 C each sheet.	FR 1.84(c)) should be written on	the drawings in the front (not the	back) of
9. ☐ DEPOSIT OF and/or INFORMATION about the dattached Examiner's comment regarding REQUIREMENT FO	leposit of BIOLOGICAL MAT OR THE DEPOSIT OF BIOLOG	ERIAL must be submitted. I	Note the
Attachment(s)			
1 Notice of References Cited (PTO-892)		of Informal Patent Application (	
3 Notice of Draftperson's Patent Drawing Review (PTO-94	•	w Summary (PTO-413), Paper	No
<ul><li>5☐ Information Disclosure Statements (PTO-1449), Paper N</li><li>7☐ Examiner's Comment Regarding Requirement for Depose</li></ul>		er's Amendment/Comment er's Statement of Reasons for	Allowance
of Biological Material	9☐ Other	er a Statement of Nedaulia IOI	
<del>*</del>			

Art Unit: 1772

## **EXAMINER'S AMENDMENT**

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Jason Johnston (864/271-1592) on 14 July 2003.
- 3. The application has been amended as follows:

# In the Claims

Claim 9, line 3, after "surface", "thereof" has been changed to -- thereon --.

Claim 14, line 7, immediately after "elastomer", "to" has been replaced with -- with -- .

Claim 25 has been cancelled.

Claim 31, line 7, -- colloidal -- has been inserted immediately before "silica".

# Remarks

Claims 9 and 14 were amended to correct typographical errors.

Claim 25 has been cancelled because the limitation therein is no longer needed.

Claim 31 has been amended to recite "colloidal silica", so that it conforms to the other base claims.

#### REASONS FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance:

The base claims are claims 1, 12, 13, 14 and 31. As amended by the examiner's amendment above, they can be summarized as follows:

Art Unit: 1772

<u>Claim 1</u> covers a surface-modified glove comprising:

a rubber matrix shaped like a glove having outside and inside surfaces, and a plurality of colloidal silica particles adhered to at least a portion of the outside surface and partially embedded therein.

Claim 12 covers a surface-modified article comprising:

a rubber matrix having an outside surface, and

a plurality of colloidal silica particles adhered to the the outside of the matrix without any separate binder, the particles being partially embedded in the outside surface without extending therethrough.

Claim 13 covers a surface-modified article comprising:

a rubber matrix having a surface, and

a plurality of electrically conductive colloidal silica particles adhered to at least at least a portion of the matrix without any separate binder, the particles being partially embedded in the outside surface without extending therethrough.

<u>Claim 14</u> covers a process for making an elastomeric article comprising the steps:

-providing a mold whose surface defines at least a portion of the surface of the article,

- -preparing a coating composition containing a plurality of colloidal silica particles,
- -applying the coating to the surface of the mold,
- -contacting a flowable elastomer with the coated surface of the mold,

Art Unit: 1772

-allowing the elastomer to coalesce against the coated surface to form an article with the colloidal silica particles adhering to the coalesced elastomer,

-separating the coalesced elastomer from the mold so that it is turned inside out, wherein the elastomeric article has inside and outside surfaces and the colloidal silica particles are adhered to the outside surface.

Claim 31 covers a surface-modified glove comprising:

an elastomeric matrix shaped like a human glove, said matrix having an inside surface for contacting a human hand and an outside surface, and

a surface treatment adhered to at least a portion of the outside surface of said glove, the surface treatment comprising a plurality of colloidal silica particles that are partially embedded in the outside surface of the glove.

5. None of the prior art of record teaches or suggests articles/gloves or processes of making same that employ colloidal silica in a manner yielding the articles/gloves or processes covered by the base claims.

#### Citation as of Interest

6. Nash (US 5,620,773) teaches the use of hydrophilic silica in a layer on the inner surface. It distinguishes its silica from hydrophobic colloidal silica at col. 3, lines 1-17.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 1772

## Conclusion

Any inquiry concerning this communication should be directed to the Examiner, Sandra M. Nolan, whose telephone number is 703/308-9545. The Examiner can normally be reached on Monday through Thursday, from 6:30 am to 4:00 pm, Eastern Time.

If attempts to reach the Examiner by telephone are unsuccessful, her supervisor, Harold Pyon, can be reached at 703/308-4251. The general fax number for the art unit is 703/305-5436. The fax number for after final communications is 703/872-9310. The receptionist answers 703/308-0661.

S. M. Nolan

**Patent Examiner** 

Technology Center 1700

SMN/smn 09334054(24) 15 July 2003